Enclosure 1

RANGE INVENTORY, ANALYSIS, AND MANAGEMENT PLAN

Project Number _____ Compiler WRW Date July 21, 1965

Allotment Morriss Unit Best Blocked #2

District Socorro State New Mexico

Name of Permittee R.L. Morriss

Field Examination (Date) June 1965

Personnel: Name	Position
William R. White	Range Conservationist

Enclosure 2

DESCRIPTION, INVENTORY AND ANALYSIS OF ALLOTMENT

Class of stock CATTLE Stocking (AUs) 156 (AUMs) 1872

Season of grazing (Dates) YEAR LONG to

Character of topography FLAT TO MODERATE SIDE SLOPES

Table 1. Area of natural vegetation types and culturally treated areas grazed by livestock and by game

Vegetation types and culturally treated areas 1/	Total area of type		Area grazed by livestock		Area grazed by game	
			At present	30 years from now 2/	At present	30 years from now 2/
(name)	(acres)	(percent)	(acres)	(acres)	(acres)	(acres)
1-S Bogr-SAGR-CHRY Canyon Bottom	1559	14	1559	1559	1559	1559
1-S Bogr-CHRY Mesa Top	890	8	890	890	890	890
9-Bogr-CHRY-JUNI Mesa Sides + Top	2087	19	2087	2087	2087	2087
1-S Bogr-CHRY-Mixed Rolling Hills	4873	43	4873	4873	4873	4873
9-Bogr-JUNI-CHRY Juniper Rolling Hills	1824	16	1824	1824	1824	1824
Other						
Allotment Total	11233	100	11233	11233	11233	11233

1/ List culturally treated areas under appropriate vegetation types.
2/ Under improved management.

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) CANYON BOTTOM

Species	Amount in cover 2/ (percent)	Forage value (Check one) Ex	Gd	Fr	Pr	Utilization ave. (Percent)	Development Start growth (date)	Flowering (date)	Seed ripe (date)	Regrowth 3/ Leaves-twigs (date)	Regrowth 3/ Flower stalks (date)
Grasses & Grass-like											
SPOROBOLUS WRIGHTII	25		X			40	APR 15	JUL 15	AUG 15	AUG 1	JULY 15
SPOROBOLUS CRYPTANDRUS	5		X			40	JUL 1	AUG 1	AUG 31	AUG 15	AUG 1
BOUTELOUA GRACILIS	20	X				60	JUL 1	AUG 1	AUG 31	AUG 15	AUG 1
ARISTIDA	5			X		10	APR 15	JUL 1	JUL 15	AUG 15	AUG 1
MUHLENBERGIA TORREYI	5				X	5	JUL 1	AUG 1	AUG 31	AUG 15	AUG 1
Total	60										
Forbs											
SALSOLA KALI	20			X		50	APR 1	JUL 15	AUG 1	AUG 15	AUG 1
Total	20										
Shrubs and trees 1/											
CHRYSOTHAMNUS, GUTIERREZIA, JUNIPER, PINON	20	NONE									
Total	20										
Grand Total	100										

1/ Including conifers

2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.

3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) MESA Sides + Top

Species	Amount in cover 2/ (percent)	Forage value (Check one) Ex	Gd	Fr	Pr	Utilization ave. (Percent)	Development Start growth (date)	Flowering (date)	Seed ripe (date)	Regrowth 3/ Leaves -twigs (date)	Flower stalks (date)
Grasses & Grass-like											
BOUTELOUA GRACILIS	75		X			60	JUL 1	Aug 1	Aug 31	Aug 15	Aug 1
MUHLENBERGIA TORREYI	5				X	5	JUL 1	Aug 1	Aug 31	Aug 15	Aug 1
Total	80										
Forbs											
Total	—										
Shrubs and trees 1/											
CHRYSOTHAMNUS, GUTIERREZIA, JUNIPER, PIÑON	20	None									
Total	20										
Grand Total	100										

1/ Including conifers

2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.

3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

Enclosure 3

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type of treated area (name) Mesa Top.

Species	Amount in cover 2/	Forage value				Utilization ave.	Development			Regrowth 3/	
		Ex	Gd	Fr	Pr		Start growth	Flowering	Seed ripe	Leaves -twigs	Flower stalks
Grasses & Grass-like	(percent)	(Check one)				(Perc't	(date)	(date)	(date)	(date)	(date)
Bouteloua gracilis	80		X			60	Jul 1	Aug 1	Aug 31	Aug 15	Aug 1
Muhlenbergia Torreyi	10				X	5	Jul 1	Aug 1	Aug 31	Aug 15	Aug 1
Total	90										
Forbs											
Total											
Shrubs and trees 1/											
Chrysothamnus, Gutierrezia	10	None									
Total	10										
Grand Total	100										

1/ Including conifers

2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.

3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) Rolling Hills.

Species	Amount in cover 2/	Forage value Ex	Gd	Fr	Pr	Utilization ave.	Development Start growth	Flowering	Seed ripe	Regrowth 3/ Leaves -twigs	Flower stalks
Grasses & Grass-like	(percent)	(Check one)				(Perc't	(date)	(date)	(date)	(date)	(date)
Bouteloua gracilis	80		X			60	Jul 1	Aug 1	Aug 31	Aug 15	Aug 1
Muhlenbergia Torreyi	5				X	5	Jul 1	Aug 1	Aug 31	Aug 15	Aug 1
Total	85										
Forbs											
Total	—										
Shrubs and trees 1/											
Chrysothamnus, Gutierrezia	15	None				—	—	—	—	—	—
Total	15										
Grand Total	100										

1/ Including conifers

2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.

3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

Enclosure 3

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) Juniper Rolling Hills

Species	Amount in cover 2/ (percent)	Forage value (Check one) Ex	Gd	Fr	Pr	Utilization ave. (Percent)	Development Start growth (date)	Flowering (date)	Seed ripe (date)	Regrowth 3/ Leaves -twigs (date)	Regrowth 3/ Flower stalks (date)
Grasses & Grass-like											
Bouteloua gracilis	75		X			60	Jul 1	Aug 1	Aug 31	Aug 15	Aug 1
Muhlenbergia Torreyi	5				X	5	Jul 1	Aug 1	Aug 31	Aug 15	Aug
Total	80										
Forbs											
Total	—										
Shrubs and trees 1/											
Chrysothamnus, Gutierrezia, Juniper, Piñon	20		None								
Total	20										
Grand Total	100										

1/ Including conifers
2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.
3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

160
150
20
330

5

Enclosure 4

Table 4. Estimated utilization of available forage in natural vegetation types and culturally treated areas and condition of range

Vegetation type or treated area[1]	Use of total tonnage of forage in type	Range condition				
		Vigor of forage species	Ratio of good to poor forage species	Density of forage	Sheet Erosion	
					Depth	Extent
	(percent)	(L,M,H)[2]	(percent)[3]	(percent of potential)	(Inches)	(Percent of ground area)
Canyon Bottom	65	M	50	40	1-6	40%
Mesa Top	45	H	90	100	Very	Little
Mesa Sides & Top	40	H	80	90	Very	Little
Rolling Hills	40	H	90	100	Very	Little
Juniper Rolling Hills	40	H	80	80	Very	Little
Allotment average	✓	H	78%	82%	Very	Little

1/ List treated areas (reseeded, sprayed, etc.) under appropriate vegetation types.
2/ L = low, M = moderate, H = high.
3/ From Table 2 Excellent and good species = good; fair and poor species = poor.

What percent of the livestock forage on the range is used by game? 1%

What are the principal foraging game animals? Deer

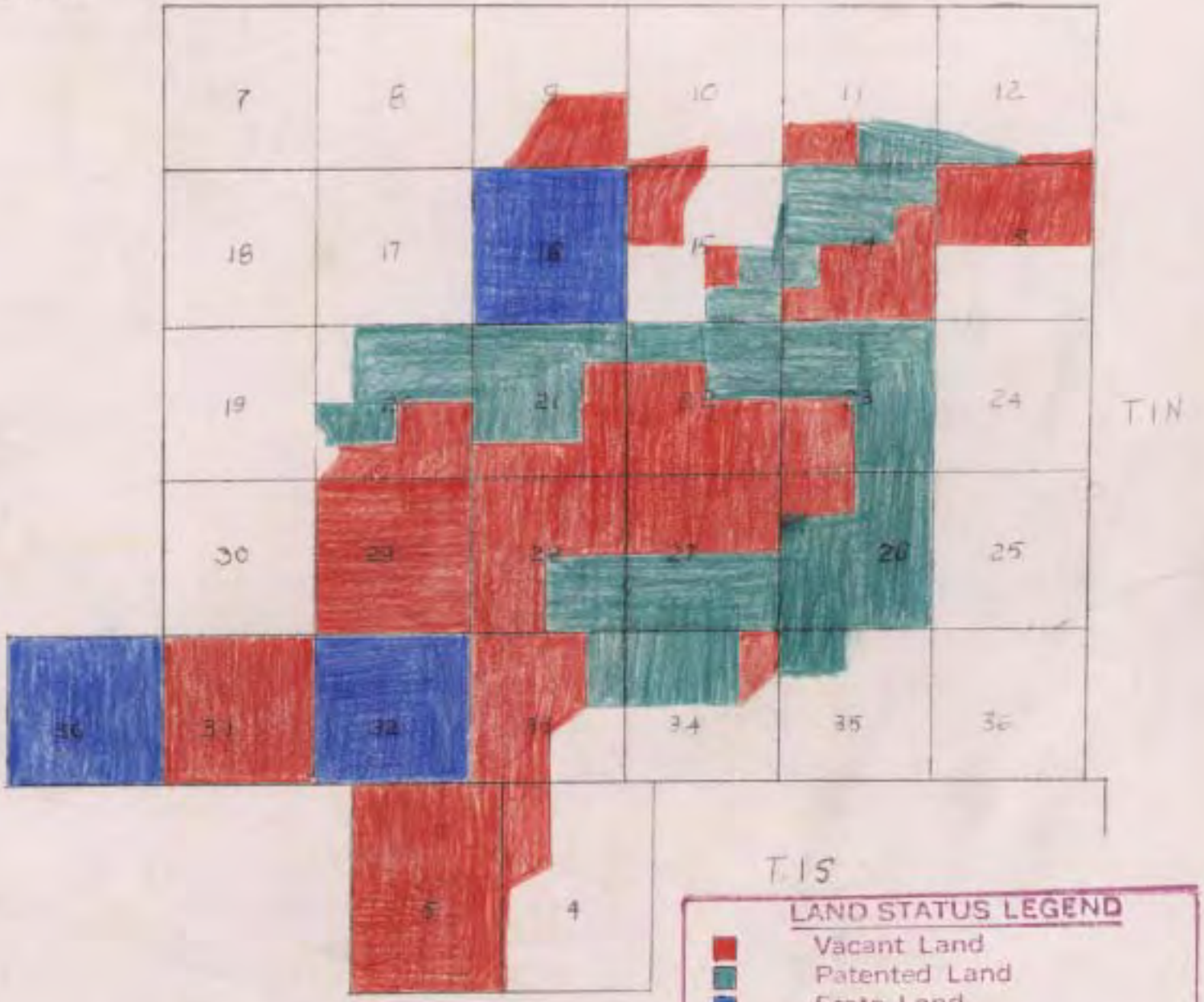
Enclosure 5

Table 6. Effect of planned cultural treatments on grazing capacity

Vegetation type to be treated	Area	Capacity at present	Capacity 30 yrs. hence due to:		Effect of cultural treatment (6) minus (4)
			Grazing management	Cultural treatment	
(name)	Acres	Ac/AUM (1) AUMs (2)	Ac/AUM (3) AUMs (4)	Ac/AUM (5) AUMs (6)	AUMs (7)
Artificial reseeding					
Total					
Spraying or other treatment					
Total					

R.16W

R.15W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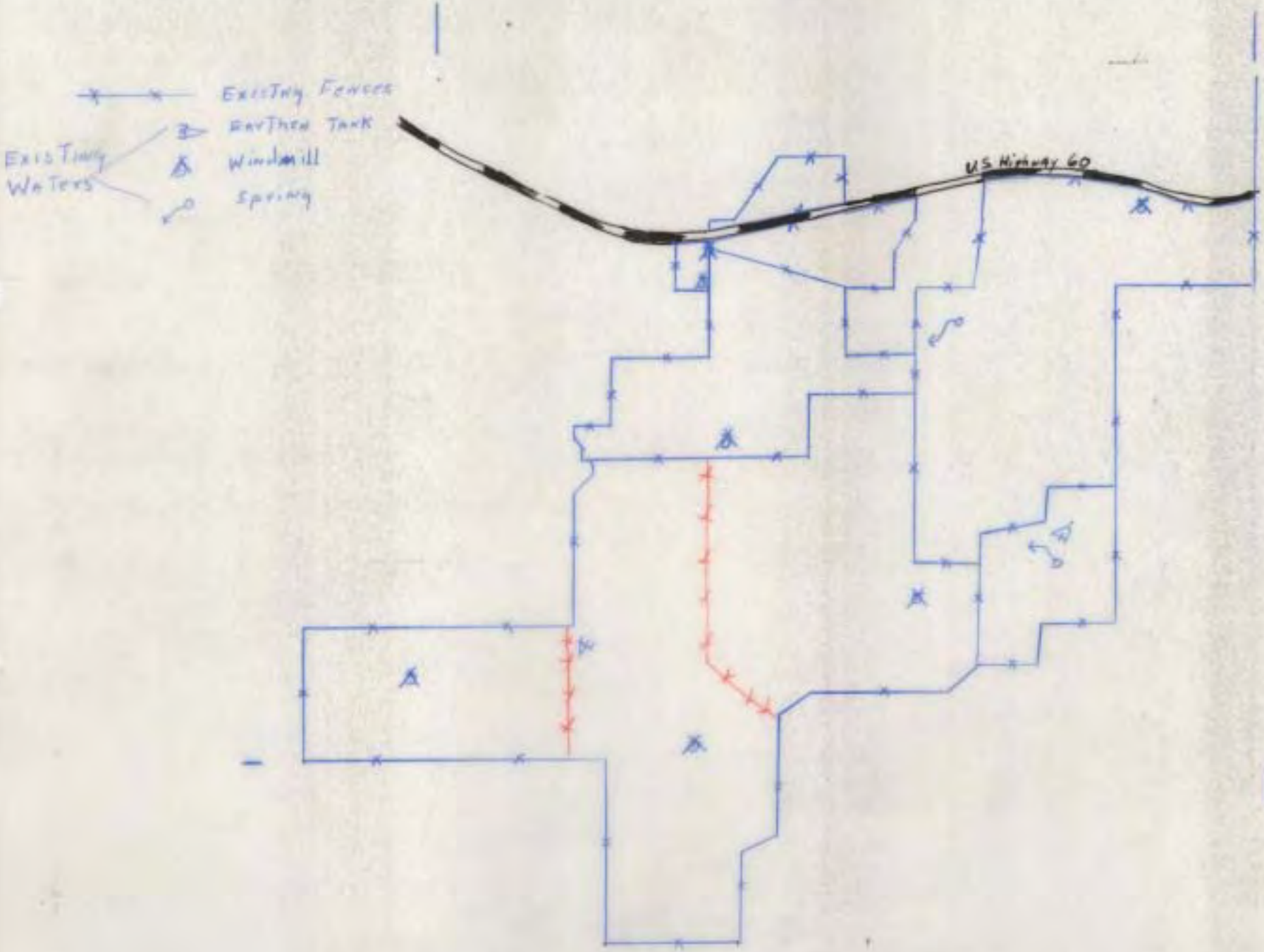
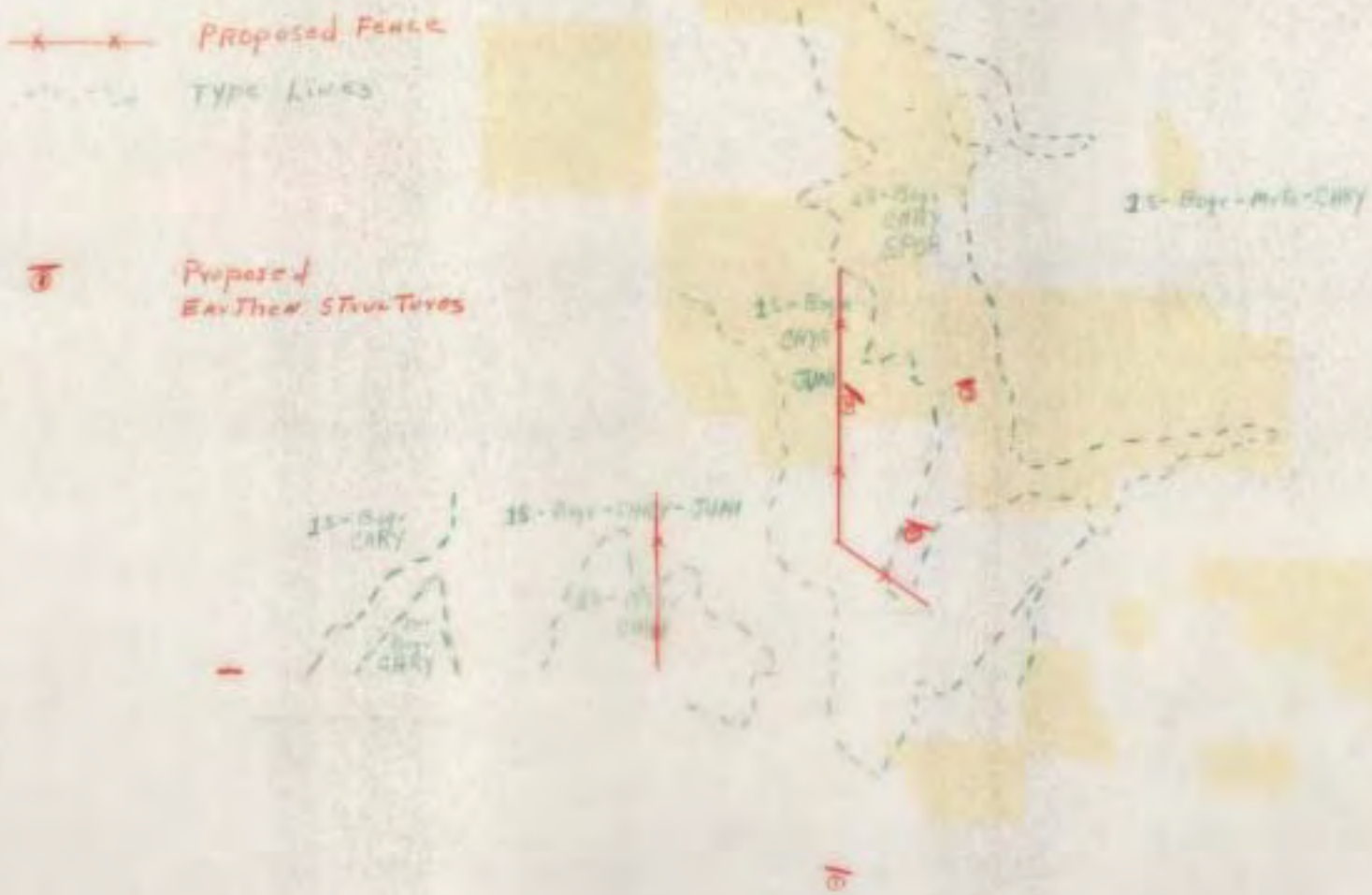
5
4
T.1N
T.1S
LAND STATUS LEGEND
Vacant Land
Patented Land
State Land

5
108
4
204
3
516
2
348
1
720
PASTURE 2
348 AUMS
PASTURE 3
516 AUMS
PASTURE 1
720 AUMS
PASTURE 4
204 AUMS
PASTURE 5
108 AUMS


Existing Fences
Earthen Tank
Existing Waters
Windmill
Spring
US Highway 60


PROposed Fence
TYPE LINES
Proposed
ENVIRONMENTAL STRUCTURES
15-Boys-Mrls-CARY
15-Boys-CARY-JUNI

Sequence of Use of Pastures

	Pasture #1	Pastures #2 + 4	Pasture #3
1966	Jan, Feb Jun, Jul, Aug, Sept, Oct	May, Apr, May	Nov, Dec
1967	Oct, Nov, Dec	May, Apr, May	Jan, Feb Jun, Jul, Aug, Sept.
1968	Jan, Feb Jun, Jul, Aug, Sept, Oct	May, Apr, May	Nov, Dec
1969	Nov, Dec	May, Apr, May, Jun	Jan, Feb Jul, Aug, Sept, Oct
1970	Jan, Feb Jun, Jul, Aug, Sept	Oct, Nov, Dec	May, Apr, May
1971	Aug, Sept, Oct, Nov, Dec	Jan, Feb	May, Apr, May, Jun
1972	Oct, Nov, Dec	Jan, Feb, May, Apr	May, Jun, Jul, Aug, Sept.
1973	Jan, Feb	Jun, Jul, Aug, Sept	May, Apr, May-Oct, Nov, Dec
1974	May, Apr, May Jun, Jul	Oct, Nov, Dec	Jan, Feb Aug, Sept
1975	Jul, Aug, Sept, Oct	Jan, Feb Nov, Dec	Mar, Apr, May, Jun
1976	Apr, May Oct, Nov, Dec	Jan, Feb, May	Jun, Jul, Aug, Sept
1977	Jan Jun, Jul, Aug, Sept, Oct	Feb, May, Apr, May	Nov, Dec